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PILLSBURY WINTHROP SHAW PITTMAN, LLP			ABELSON, RONALD B	
Eric S. Cherry - Docketing Supervisor				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	09/869,069	OHVO ET AL.	
	Examiner	Art Unit	
	Ronald Abelson	2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 21 August 2007 and 23 July 2007.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1,3-12,14,18,19,21 and 23-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1,3-12,14,18,19,21 and 23-30 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 1/24/07 and 6/1/01 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) Notice of Informal Patent Application
- 6) Other: _____

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 24-30 are considered a single means claim because it merely recites "a first network element" which would include any type of network node that forwards signals because any network node may forward signals. Applicant has not disclosed every conceivable structure for forwarding a signal.

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 24-30 rejected as failing to define the invention in the manner required by 35 U.S.C. 112, second paragraph.

The claim(s) are narrative in form and replete with indefinite and functional or operational language. The

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structure which goes to make up the device must be clearly and positively specified. The structure must be organized and correlated in such a manner as to present a complete operative device. The claim(s) must be in one sentence form only. Note the format of the claims in the patent(s) cited.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 23, 24, and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chuah (US 6,400,695) in view of Shimojo (US 5,787,072).

Regarding claim 23, 24, and 27, Chuah teaches a mobile communications system (fig. 1).

Chuah teaches a first connection leg supporting flow control on a lower transmission protocol level underlying a user

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level (fig. 1 see connection between box 2 and 6, WCDMA, col. 2 lines 1-5, fig. 2 LAC, col. 2 lines 39-41). Note, applicant's background states LAC supports flow control on a lower transmission protocol level underlying a user level (spec: pg. 4 lines 1-2).

Chuah teaches an intermediate second connection leg not supporting flow control on the lower transmission level (fig. 1 see connection Node-B 'connected to box 2' to box 10 to box 14 to Node-B 'connected to box 4', ATM, col. 2 lines 53-58). Note, applicant's background states ATM does not supporting flow control on the lower transmission level (pg. 4 line 17-18).

Chuah teaches a third connection leg supporting flow control on the lower transmission protocol level (fig. 1 see connection between box 4 and 6, WCDMA, col. 2 lines 1-5, fig. 2 LAC, col. 2 lines 39-41).

Chuah teaches a first network element of the mobile communications system between the first and second legs (fig. 1 box 6 that is connected to box 2).

Chuah teaches a second network element of the mobile communications system between the second and third legs (fig. 1 box 6 that is connected to box 4).

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Chuah teaches the first leg is at the air interface between a mobile station and one of the network elements (fig. 1 box 2, WCDMA, col. 2 lines 1-5).

Although Chuah teaches lower level flow control information, the reference is silent on the first and second network elements are configured to tunnel lower level flow control information through the lower transmission protocol level of the second leg between said first and third legs in order to provide end-to-end flow control and thereby data integrity over the connection on the lower transmission protocol layer.

Shimojo teaches tunneling flow control information through the lower transmission protocol level (ATM, col. 1 lines 12-14) of the second leg between said first and third legs in order to provide end-to-end flow control and thereby data integrity over the connection on the lower transmission protocol layer (large number of switching nodes not having flow control, tunneling, downstream flow control function will transmit control information to upstream apparatus, col. 3 lines 48-57). The examiner corresponds the applicant's second leg with the large

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number of switching nodes not having flow control in the reference.

Therefore it would have been obvious to one of ordinary skill in the art, to modify the system of Chuah by tunneling lower level flow control information from through the ATM network, as suggested by Shimojo. This modification can be performed according to the teachings of Shimojo. This modification would benefit by allowing for the transmission of flow control information to be transported between the first and second networks.

3. Claims 1, 14, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chuah (US 6,400,695) in view of Shimojo, and Edholm (US 6,600,721).

Regarding claim 1, 14, and 28, Chuah teaches a mobile communications system (fig. 1).

Chuah teaches a first connection leg supporting flow control on a lower transmission protocol level underlying a user level (fig. 1 see connection between box 2 and 6, WCDMA, col. 2 lines 1-5, fig. 2 LAC, col. 2 lines 39-41). Note, applicant's background states LAC supports flow control on a lower transmission protocol level underlying a user level (spec: pg. 4 lines 1-2).

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Chuah teaches an intermediate second connection leg not supporting flow control on the lower transmission level (fig. 1 see connection Node-B 'connected to box 2' to box 10 to box 14 to Node-B 'connected to box 4', ATM, col. 2 lines 53-58). Note, applicant's background states ATM does not supporting flow control on the lower transmission level (pg. 4 line 17-18).

Chuah teaches a third connection leg supporting flow control on the lower transmission protocol level (fig. 1 see connection between box 4 and 6, WCDMA, col. 2 lines 1-5, fig. 2 LAC, col. 2 lines 39-41).

Chuah teaches a first node between the first and second legs (fig. 1 box 6 that is connected to box 2).

Chuah teaches a second node between the second and third legs (fig. 1 box 6 that is connected to box 4).

Chuah teaches the first leg is at the air interface between a mobile station and one of the network elements (fig. 1 box 2, WCDMA, col. 2 lines 1-5).

Although Chuah teaches lower level flow control information, the reference is silent on tunnelling lower level flow control information as in-channel signaling through the lower transmission protocol level of the second leg between said first and third legs in order to provide end-to-end flow control

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and thereby data integrity over the connection on the lower transmission protocol layer.

Shimojo teaches tunneling flow control information through the lower transmission protocol level (ATM, col. 1 lines 12-14) of the second leg between said first and third legs in order to provide end-to-end flow control and thereby data integrity over the connection on the lower transmission protocol layer (large number of switching nodes not having flow control, tunneling, downstream flow control function will transmit control information to upstream apparatus, col. 3 lines 48-57). The examiner corresponds the applicant's second leg with the large number of switching nodes not having flow control in the reference.

Therefore it would have been obvious to one of ordinary skill in the art, to modify the system of Chuah by tunneling lower level flow control information from through the ATM network, as suggested by Shimojo. This modification can be performed according to the teachings of Shimojo. This modification would benefit by allowing for the transmission of flow control information to be transported between the first and second networks.

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Although the combination teaches tunneling, the combination is silent on tunneling to flow control information using in-channel/in-band signaling.

Edholm teaches flow control information using in-channel/in-band signaling (col. 1 lines 36-37).

Therefore it would have been obvious to one of ordinary skill in the art, to modify the system of the combination of Chuah and Shimojo by tunneling the flow control information using in-band flow control. This modification can be performed according to the teachings of Edholm. This modification would benefit the system since separate bands for data and flow control would not be needed.

4. Claims 3, 4, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Chuah, Shimojo, and Edholm as applied to claim 1 above, and further in view of Akiyoshi (US 5,668,812).

Regarding claim 3, although the combination teaches the second leg is an ATM connection (Chuah: fig. 1 see connection Node-B 'connected to box 2' to box 10 to box 14 to Node-B 'connected to box 4', ATM, col. 2 lines 53-58), the combination is silent on the lower transmission protocol level includes an

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ATM adaptation layer.

Akiyoshi teaches an ATM adaptation layer (col.1 lines 39-43).

Therefore it would have been obvious to one of ordinary skill in the art, to modify the system of the combination by incorporating an ATM adaptation layer, as suggested by Akiyoshi. Adhering to ATM standards can perform this modification. This modification would benefit the system since the ATM adaptation layer performs flow control (Akiyoshi: col.1 lines 39-43).

Regarding claim 4, transporting the ATM adaptation layer service data unit to the other end of the second leg in accordance with an ATM network protocol, and extracting the flow control information from the ATM adaptation layer service data unit at said other end of the second leg (Akiyoshi: ATM adaptation layer, flow control, col.1 lines 39-43).

Regarding claim 6, although the combination teaches the second leg is an ATM connection tunneling flow control information, the combination is silent on the flow control information in ATM cells in an ATM layer.

Akiyoshi teaches the flow control information in ATM cells in an ATM layer (convergence sublayer in which flow control is

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conducted, col.1 lines 39-43).

Therefore it would have been obvious to one of ordinary skill in the art, to modify the system of the combination by performing flow control information in the ATM adaptation layer, as suggested by Akiyoshi. Adhering to ATM standards can perform this modification. This modification would benefit the system since the ATM adaptation layer performs flow control (Akiyoshi: col.1 lines 39-43).

5. Claims 7, 18, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chuah in view of Shimojo, Williams (US 6,317,455), and Akiyoshi.

Regarding claims 7, 18, and 29, Chuah teaches transmitting data over a connection comprising a first leg supporting flow control on a lower transmission protocol level underlying a user level (fig. 1 see connection between box 2 and 6, WCDMA, col. 2 lines 1-5, fig. 2 LAC, col. 2 lines 39-41), an intermediate second leg not supporting flow control on the lower transmission level (fig. 1 see connection Node-B 'connected to box 2' to box 10 to box 14 to Node-B 'connected to box 4', ATM, col. 2 lines 53-58). Note, applicant's background states ATM does not supporting flow control on the lower transmission level

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(pg. 4 line 17-18), and a third leg supporting flow control on the lower transmission protocol level, wherein said second leg comprises an ATM connection (fig. 1 see connection between box 4 and 6, WCDMA, col. 2 lines 1-5, fig. 2 LAC, col. 2 lines 39-41.

Chuah teaches a first node between the first and second legs (fig. 1 box 6 that is connected to box 2).

Chuah teaches a second node between the second and third legs (fig. 1 box 6 that is connected to box 4).

Chuah is silent on tunneling the flow control information over the second leg.

Shimojo teaches tunneling flow control information over the second leg (ATM, col. 1 lines 12-14)

Therefore it would have been obvious to one of ordinary skill in the art, to modify the system of Chuah by tunneling lower level flow control information from through the ATM network, as suggested by Shimojo. This modification can be performed according to the teachings of Shimojo. This modification would benefit by allowing for the transmission of flow control information to be transported between the first and second networks.

Although the combination teaches tunneling flow control

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information over the second leg, the combination is silent on an out-of-traffic-channel signaling associated with the connection.

Williams teaches flow control information using an out-of-traffic channel (col. 5 lines 32-36).

Therefore it would have been obvious to one of ordinary skill in the art, to modify the system of the combination by tunneling the flow control information using an out-of-traffic channel. This modification can be performed according to the teachings of Williams. This modification would benefit the system since by having two separate channels, more bandwidth can be devoted to transmitting the data.

The combination is silent on the second leg comprises an ATM adaptation layer.

Akiyoshi teaches an ATM adaptation layer (col.1 lines 39-43).

Therefore it would have been obvious to one of ordinary skill in the art, to modify the system of the combination by incorporating an ATM adaptation layer, as suggested by Akiyoshi. Adhering to ATM standards can perform this modification. This modification would benefit the system since the ATM adaptation layer performs flow control (Akiyoshi: col.1 lines 39-43).

6. Claims 8-12, 19, 21, 25, and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chuah in view of Shimojo, Akiyoshi, and Edholm.

Regarding claims 8, 10, 12, 19, 21, 25, and 26, Chuah teaches transmitting data over a connection comprising a first leg supporting flow control on a lower transmission protocol level underlying a user level (fig. 1 see connection between box 2 and 6, WCDMA, col. 2 lines 1-5, fig. 2 LAC, col. 2 lines 39-41), an intermediate second leg not supporting flow control on the lower transmission level (fig. 1 see connection Node-B 'connected to box 2' to box 10 to box 14 to Node-B 'connected to box 4', ATM, col. 2 lines 53-58). Note, applicant's background states ATM does not supporting flow control on the lower transmission level (pg. 4 line 17-18), and a third leg supporting flow control on the lower transmission protocol level, wherein said second leg comprises an ATM connection (fig. 1 see connection between box 4 and 6, WCDMA, col. 2 lines 1-5, fig. 2 LAC, col. 2 lines 39-41).

Chuah teaches a first node between the first and second legs (fig. 1 box 6 that is connected to box 2).

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Chuah teaches a second node between the second and third legs (fig. 1 box 6 that is connected to box 4).

Chuah teaches the second leg comprises an ATM connection (ATM, col. 2 lines 53-58).

Chuah is silent on tunneling the flow control information over the second leg.

Shimojo teaches tunneling flow control information over the second leg (ATM, col. 1 lines 12-14).

Therefore it would have been obvious to one of ordinary skill in the art, to modify the system of Chuah by tunneling lower level flow control information from through the ATM network, as suggested by Shimojo. This modification can be performed according to the teachings of Shimojo. This modification would benefit by allowing for the transmission of flow control information to be transported between the first and second networks.

The combination is silent on the second leg comprises an ATM adaptation layer.

Akiyoshi teaches an ATM adaptation layer (col.1 lines 39-43).

Therefore it would have been obvious to one of ordinary

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skill in the art, to modify the system of the combination by incorporating an ATM adaptation layer, as suggested by Akiyoshi. Adhering to ATM standards can perform this modification. This modification would benefit the system since the ATM adaptation layer performs flow control (Akiyoshi: col.1 lines 39-43).

The combination is silent on recognizing at a first node between the first and second legs a need to start a flow control towards the second leg, sending a flow control ON request over the second leg, receiving the flow control ON request at a second node between the second and third legs, stopping sending new data or decreasing data rate from the second node to the first node over the second leg in response to the flow control ON request.

Edholm teaches a method for recognizing at a first node between the first and second legs a need to start a flow control towards the second leg, sending a flow control ON request over the second leg, receiving the flow control ON request at a second node between the second and third legs, stopping sending new data or decreasing data rate from the second node to the first node over the second leg in response to the flow control ON request (data 'off', col. 1 lines 36-44). The examiner

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corresponds the applicant's 'flow control ON request' with the data 'off' signal of the reference.

Regarding claims 9 and 11, the combination is silent on recognizing at the first node a need of stopping the flow control towards the second leg, sending a flow control OFF request over the second leg, receiving the flow control OFF request at the second node, starting sending new data or increasing data rate from the second node to the first over the second leg in response to said flow control off request.

Edholm teaches a method for recognizing at the first node a need of stopping the flow control towards the second leg, sending a flow control OFF request over the second leg, receiving the flow control OFF request at the second node, starting sending new data or increasing data rate from the second node to the first over the second leg in response to said flow control off request (data 'on', col. 1 lines 36-44). The examiner corresponds the applicant's 'flow control OFF request' with the data 'on' signal of the reference.

Regarding claim 12, 21, 26, the combination is silent on recognizing the need for starting or stopping the flow being based on the status of a receiving or transmitting buffer in the

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first node or on incoming flow control information received over the first leg.

Edholm teaches recognizing the need for starting or stopping the flow being based on the status of a receiving or transmitting buffer in the first node or on incoming flow control information received over the first leg (off signal stops flow of data until data within buffer is consumed, col. 1 lines 36-44).

Therefore it would have been obvious to one of ordinary skill in the art, to modify the system of the combination of Chuah, Gerszberg, and Newton by stopping or starting the sending of data between nodes according to the teachings of Edholm. This modification can be performed in software. This modification would benefit the system by preventing overflow in the receiving buffer and allowing for the restarting of the transmission.

7. Claims 5 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chuah (US 6,400,695) in view of Shimojo, and Akiyoshi.

Chuah teaches a mobile communications system (fig. 1).

Chuah teaches a first connection leg supporting flow control on a lower transmission protocol level underlying a user

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level (fig. 1 see connection between box 2 and 6, WCDMA, col. 2 lines 1-5, fig. 2 LAC, col. 2 lines 39-41). Note, applicant's background states LAC supports flow control on a lower transmission protocol level underlying a user level (spec: pg. 4 lines 1-2).

Chuah teaches an intermediate second connection leg not supporting flow control on the lower transmission level (fig. 1 see connection Node-B 'connected to box 2' to box 10 to box 14 to Node-B 'connected to box 4', ATM, col. 2 lines 53-58). Note, applicant's background states ATM does not supporting flow control on the lower transmission level (pg. 4 line 17-18).

Chuah teaches a third connection leg supporting flow control on the lower transmission protocol level (fig. 1 see connection between box 4 and 6, WCDMA, col. 2 lines 1-5, fig. 2 LAC, col. 2 lines 39-41).

Chuah teaches a first node between the first and second legs (fig. 1 box 6 that is connected to box 2).

Chuah teaches a second node between the second and third legs (fig. 1 box 6 that is connected to box 4).

Chuah teaches the first leg is at the air interface between a mobile station and one of the network elements (fig. 1 box 2, WCDMA, col. 2 lines 1-5).

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Although Chuah teaches lower level flow control information, the reference is silent on tunnelling lower level flow control information as in-channel signaling through the lower transmission protocol level of the second leg between said first and third legs in order to provide end-to-end flow control and thereby data integrity over the connection on the lower transmission protocol layer.

Shimojo teaches tunneling flow control information through the lower transmission protocol level (ATM, col. 1 lines 12-14) of the second leg between said first and third legs in order to provide end-to-end flow control and thereby data integrity over the connection on the lower transmission protocol layer (large number of switching nodes not having flow control, tunneling, downstream flow control function will transmit control information to upstream apparatus, col. 3 lines 48-57). The examiner corresponds the applicant's second leg with the large number of switching nodes not having flow control in the reference.

Therefore it would have been obvious to one of ordinary skill in the art, to modify the system of Chuah by tunneling lower level flow control information from through the ATM network, as suggested by Shimojo. This modification can be performed according to the teachings of Shimojo. This

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modification would benefit by allowing for the transmission of flow control information to be transported between the first and second networks.

The combination is silent on transporting the ATM adaptation layer service data unit to the other end of the second leg in accordance with an ATM network protocol, and extracting the flow control information from the ATM adaptation layer service data unit at said other end of the second leg.

Akiyoshi teaches transporting the ATM adaptation layer service data unit to the other end of the second leg in accordance with an ATM network protocol, and extracting the flow control information from the ATM adaptation layer service data unit at said other end of the second leg (ATM adaptation layer, flow control, col.1 lines 39-43).

Therefore it would have been obvious to one of ordinary skill in the art, to modify the system of the combination by incorporating an ATM adaptation layer and performing flow control using the ATM adaptation layer, as suggested by Akiyoshi. Adhering to ATM standards can perform this modification. This modification would benefit the system since the ATM adaptation layer performs flow control (Akiyoshi: col.1 lines 39-43).

Response to Arguments

8. Applicant's arguments filed 1/24/07 have been fully considered but they are not persuasive.

The examiner disagrees with the applicant's assertion that the cited prior art fails to teach tunneling layer two flow information through an intermediate leg not supporting layer two flow control (applicant: pg. 1 2nd paragraph pg. 2 last two paragraphs). Shimojo teaches ATM. It is well known that ATM is a layer two protocol and does not support layer two end-to-end flow control. Furthermore, Shimojo clearly teaches two legs supporting flow control (apparatuses having a flow control function, col. 3 lines 48-57) and an intermediate leg not supporting flow (large number of switch nodes not having a flow control function between the apparatuses, col. 3 lines 48-57). Furthermore, Shimojo teaches tunneling flow control information between the apparatuses having a flow control function (tunneling, apparatus having the downstream flow control function will transmit control information to the upstream apparatus, col. 3 lines 48-57). Note, the examiner corresponds

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Shimojo's "transmit control information" to tunneling layer two flow control since "tunnelling" is taught in the passage.

The examiner disagrees with the applicant's assertion that the first through third legs of Chuah do not correspond to the applicants first through third legs (applicant: pg. 1 2nd to last paragraph - pg. 2 3rd paragraph). As shown in Chuah, "Particularly, a plurality of remote terminals 2 and 4 communicate with base stations via W-CDMA wireless links (fig. 1 , col. 1 lines 1-5). Thus the connections from remote terminals 2 and 4 to their respective base stations correspond to the first and third legs respectively. Regarding the second leg, Chuah clearly describes an ATM connection between respective base stations (fig. 1 boxes 6). As stated in Chuah, "Layer 2 of the core network (i.e., right side of NODE-B) transport network layer frames, e.g. ATM" (col. 2 lines 53-58).

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ronald Abelson whose telephone number is (571) 272-3165. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be

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reached on (571) 272-7439. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Ronald Abelson
Examiner
Art Unit 2616
